

EFROS, Miron Moiseyevich; LIFSHTIS, A.Ye.; retsenzent; LEBIDAY,
N.D., red.

[Heating and heat-treating gas-operated furnaces] Nagre-
vatel'nye i termicheskie pechi na gazovom toplivo. Mo-
skva, Metallurgiya, 1945 p. 415 p. (MIRA 18:2)

LEBEDEV, N.F., podpolkovnik meditsinskoy sluzhby

Analysis of repeated hospitalization from data of a garrison hospital.
oen.-med.zhur. no.10:60-62 O '59. (MIRA 13:3)
(WOUNDED AND SICK, statist.)

LEBEDEV, N. F.

Agricultural Machinery

Mechanization on the Malenkov Collective Farm. Sots. zhiv. 14 No. 8, 1952.

Monthly List of Russian Accessions. Library of Congress, November 1952. UNCLASSIFIED.

LEBEDEV, N. F.

Pumping Stations - Gor'kiy Province

Use of towerless electric pumping stations on collective farms of Gor'kiy Province.
Sots. zhiv. 15, No. 3, 1953.

Monthly List of Russian Accessions, Library of Congress, June 1953. Uncl.

KOMAROV, F.I.; IVANOV, A.I.; LEBEDEV, N.F.

Effect of the quality of suppers on the gastric secretion in
healthy people and in patients with chronic gastritis. Vop. pit.
(MIRA 17:7)
22 no.6:16-21 N-D '63.

1. Iz kafedry terapii usovershenstvovaniya vrachey No.2 (nachal'nik -
prof. G.A. Smagin) Voenno-meditsinskoy ordena Lenina akademii imeni
Kirova, Leningrad.

LEBEDEV, N. F.

3000

Lebedev, N. F. On the propagation of unloading waves in the case of linear hardening. Akad. Nauk SSSR Tekh. Mat. Mekh. 15, 625-628, 1951. (Russian)

In a previous paper Bakhitani, same journal 9, 91-100, 1948, (Mosk. Rev. 7, 144) the author investigated an impact of a plastic wave in a homogeneous semi-infinite medium. Some characteristics of the wave are described in detail. In the present paper (2 x 8) a problem of unloading of a plastic wave is considered. The solution is obtained by use of a set of characteristics of the propagation equations. The solution is given in the form of a converging series. This is applied to the case of linear hardening. H. L. Duff, Santa Monica, Calif.

Source: Mathematical Reviews,

Vol 13 No. 9

Smw 227

LEBEDEV, N.F.

USSR/Engineering - Mechanics, Impact Phenomena

1952

"Propagation of an Impact Wave in a Semi-Infinite Uniform Bar," N. F. Lebedev
(Novozybkov), Novozybkov State Pedagogical Inst

Inzhen Sbor, Vol 11, pp 103 - 122

Investigates and solves subject problem for case of nonlinear hardening of the
material. Uses graphic method for complex analytical computations. Submitted
30 Jan 51.

1.000000, 1.1.7.

"Propagation of an Elastic-Plastic Wave in a Glass." Jani-lynn-1974, Dept
of Mechanics, Acad Sci USSR, 11 Feb 74. Dissertation (reference Moscow, Moscow,
2 Feb 74)

no: 100, 100, 1004

FD-651

LEBEDEV, N. F.
USSR/Physics - Elastic plastic wave

Card 1/1 : Pub. 85-6/20

Author : Lebedev, N. F. (Novozybkov)

Title : Secondary elastic-plastic wave

Periodical : Prikl. mat. i mekh., 18, 167-180, Mar/Apr, 1954

Abstract : By constructing a network of characteristics the author solves the problem of the propagation of the so-called secondary elastic-plastic wave; that is, determines the stress-strain state of the beam. The author claims that the particular problem considered here has never been treated before in the literature. Nine references.

Institution : Novozybkov State Pedagogic Institute

Submitted : June 6, 1951

LEBEDEV, N. F., NISSEYANOV, N., LOZGACHEV, V. I., and CHUDINOV, E. G.

"Isotope Exchange Method for Measuring the Velocity of Evaporation and the Coefficient of Diffusion of Solid Metals".

Report appearing in 1st Volume of "Session of the Academy of Sciences USSR on the Peaceful Use of Atomic Energy, 1-5 July 1955", Publishing House of Academy of Sciences, USSR, 1955.

SO: Sum 728, 28 Nov 1955.

LEBEDEV, N. F.

USSR/Chemistry-Physical chemistry

Card 1/1 Pub. 22 - 31/59

Authors : Nesmeyanov, An. N.; Lozgarhev, V. I., and Lebedev, N. F.

Title : Isotopic exchange method for measuring the pressure of saturated vapor

Periodical : Dok. AN SSSR 102/2, 307-310, May 11, 1955

Abstract : The application of the isotopic exchange method for the measurement of saturated vapor pressures is discussed. The speed of the measuring process at a given temperature can be determined by the value of the specific activity of one of the samples placed in a closed vacuum vessel and upon rate of evaporation and diffusion, as well as the condensation coefficient. Numerous equations are given which make such determination possible. Two USSR references (1947).

Institution : Moscow State University im. M.V. Lomonsov

Presented by : Academician P. A. Rebinder, December 14, 1954

ZNAMENSKIY, V.A.; LEBEDEV, N.F.; AGEROV, D.L.

Accelerated identification of the plague microbe using fluorescent
antibodies. Trudy VladIEMG no.2:191-198 '62. (MIRA 18:3)

LEBEDEV, N.I.

SCARLET FEVER

"On the Question of Speedily Discharging Patients With Scarlet Fever",
by N.I. Lebedev and E.V. Fel'dman, Zdravookhraneniye Belorussii, No 3,
March 1957, pp 21-23.

Patients suffering from scarlet fever may be discharged early from hospitals. The authors report that the percentage of subsequent complications in cases of scarlet fever is only 13.8; the possibility of an infection from convalescents, not treated with penicillin, is 9.6%, and from those who treated with it -- a mere 0.9%, but, whether in hospitals or at home, only a strict observance of the scarlatinal regimen can control the frequency of complications and further infections.

Card 1/1

- 74 -

LEBEDEV, N.I.

LEBEDEV, N.I., Cand Med Sci --(diss) "Clinico-epidemiological characteristics of scarlet fever in Minsk during recent years." Minsk, 1958. 12 pp (Minsk State Med Inst). 200 copies (KL,20-58,102)

LEBEEDEV, N.I.

Diagnostic value of the uroprecipitation reaction in scarlet fever with type-specific precipitating antistreptococcal sera.
Zdrav.Belor. 5 no.8:48-49 Ag '59. (MIRA 12:10)

1. Kafedra infektsionnykh bolezney s epidemiologiyey (zaveduyushchiy - prof.A.N.Filippovich) Minskogo meditsinskogo instituta.
(SCARLET FEVER) (SERUM DIAGNOSIS)

LEBEDEV, H. I., Cand Tech Sci (diss) -- "Investigation of the processing of
'whips' on floating lines". Moscow, 1960. 23 pp (Min Higher and Inter Spec
Educ RSFSR, Moscow Forestry Engineering Inst), 125 copies (KL, No 10, 1960, 131)

LEBEDEV, N. I. ENGINEER

"The Manufacture of Smrocket Gears with
an Improved Profile for Roller Chain" Stanki i
Instrument, 12, No. 5, 1941

Report U-1503, 4 Oct. 1951

SOV-118-58-7-6/20

AUTHORS: Kovner, V.N. and Lebedev, K.I., Engineers

TITLE: Frameless Diesel Hammer of the Type DB-45 (Beskoprovyy dizel'-molot DB-45)

PERIODICAL: Mekhanizatsiya trudoyemkikh i tyazhelykh rabot, 1958, Nr 7, p 18, (USSR)

ABSTRACT: The diesel hammer DB-45 is used to ram the pilings of wooden bridges to be built on timber transportation roads. The weight is only 260 kg; the main parts are the diesel hammer, the bridge-type telfer crane and the holding device. The diesel hammer DB-45 is of simple design and is easy to operate. It may be recommended for wide application in the lumber industry. There is one technical drawing.

1. Pile drivers--Development

Card 1/1

ARTAMONOV, K.I.; LEBEDEV, N.I.; YERGALIYEV, E.Ye.; LEBECHKO, A.K.;
YAKUSHIN, M.V.; KAZAKOV, V.N.; BRYUKHANOV, N.G.; NIKITINA, L.I.;
KHVESYUK, F.I.; Primali uchastiye: MATVEYEV, A.T.; KOVALEV, S.I.;
ROMANOV, V.S.; MARCHENKO, B.P.; ZUDOVA, T.I.; OMAROV, M.N.;
PECHENKIN, S.N.; LUKIN, Ye.G.; KHLUDKOV, V.I.

Shaft-furnace copper smelting with an oxygen-enriched blow.
TSvet. met. 34 no.3:32-39 Mr '61. (MIRA 14:3)

1. Irtyshtskiy polimetallicheskiy kombinat (for Artamonov, Lebedev,
Yergaliyev, Lesechko, Matveyev, Kovalev, Romanov, Marchenko, Zudova,
Omarov). 2. Vsesoyuznyy nauchnoissledovatel'skiy institut tsvetnykh
metallov (for Yakushin, Kazakov, Bryukhanov, Nikitina, Khvesyuk,
Pechenkin, Lukin, Khludkov).

(Copper--Metallurgy) (Oxygen--Industrial applications)

ZLATKIN, Moisey Grigor'yevich; DOROKHOV, Nikolay Nikolayevich; LEBEDEV, Nikolay Ivanovich; MAKAROV, Nikolay Yevgen'yevich; NEYSHTAT, Zya-ma Fal'kovich; SYCHEV, Arkadiy Mikhaylovich; SKLYUYEV, P.V., kand. tekhn. nauk, retsenzent; TASHCHEV, A.K., kand. tekhn. nauk, retsenzent; TRUBIN, V.N., kand. tekhn. nauk, retsenzent; VSHIVKOV, P.P., inzh., retsenzent; KON'KOV, A.S., inzh., retsenzent; LEBEDEV, N.S., inzh., retsenzent; POTEKUSHIN, N.V., inzh., retsenzent; TYAGUNOV, V.A., doktor tekhn. nauk, red.; SOKOLOV, K.N., kand. tekhn. nauk, red.; SKORNYAKOV, V.B., red.; YAROSHENKO, Yu.G., red.; ZAKHAROV, B.P., inzh., red.; AMIROV, I.M., inzh., red.; MYSHKOVSKIY, V.A., inzh., red.; SHELEKHOV, V.A., inzh., red.; BOGOMOLOV, O.P., inzh., red.; KATS, I.S., inzh., red.; LEVANOV, A.N., inzh., red.; DUGINA, N.A., tekhn. red.

[Handbook on forging practices] Spravochnik rabocheho kuznechno-shtampovohnogo proizvodstva. By M.G.Zlatkin i dr. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1961. 776 p.

(MIRA 14:9)

(Forging—Handbooks, manuals, etc.)

LEBEDEV, N.I., kand.tekhn.nauk; IVANOV, S.M., inzh.

Diagrams of a unit for semiautomatic dressing of round timber with
movable saws. Mekh.i avtom. proizv. 17 no.2:24-28 F '63. (MIRA 16:2)
(Lumbering--Machinery)

LEBEDEV, N.I.; OVCHINNIKOV, I.Ye.

Contactless d.c. motor with a transistor commutator. Stor. rab. po
vop. elektromekh. no.9:131-145 '63. (MIRA 17:2)

KLYUCHAREV, A.A.; SOKGOBENZON, Ye.Ye.; LEBEDEV, N.I.; PASHKOVSKAYA, B.S.

Bacterial vection in dysentery. Zdrav. Bel. 9 no.8:6-9: Ag '63.
(MIRA 17:3)

1. Iz kafedry infektsionnykh bolezney s epidemiologiyey (zav. -
doktor med. nauk D.V. Poleshko) Minskogo meditsinskogo instituta.

ACCESSION NR: AT4015859

S/2573/63/000/009/0131/0145

AUTHOR: Lebedev, N. I.; Ovchinnikov, I. Ye.

TITLE: A direct current motor with no contacts and a transistor commutator

SOURCE: AN SSSR. Institut elektromekhaniki. Sbornik rabot po voprosam elektromekhaniki, no. 9, 1963. Avtomatizatsiya, telemekhanizatsiya i priborostroyeniye (Automation, telemechanization and instrument manufacture), 131-145

TOPIC TAGS: motor, electric motor, direct current motor, automatic control system, contactless motor, commutator, transistor commutator, servo mechanism

ABSTRACT: A low-power D.C. motor, whose commutator is replaced by a transistor circuit regulated by transformers which monitor the position of the rotor with respect to the stator, is described. A simplified version of the motor is shown in Figure 1 of the Enclosure. The rotor is a two-pole constant magnet. The stator has one winding and two transformers located at the flanges of the body. The axis of the rotor is connected to a signal disc (2) which is made from ferromagnetic material and is cut out as shown. Since the output winding of the transformers D₁ and D₂ are connected differentially, the transformer puts out a signal whenever two of its cores overlap. The signal which controls the solid state commutator (3) is taken from transformer D₁. Synchronization of the performance of the

Card 1/3

ACCESSION NR: AT4015859

transformers and the commutator requires that D_1 and D_2 be located on the axis of the winding OD and that the disc be symmetrical with respect to the line perpendicular to the pole axis of the rotor. Better performance may be obtained, with respect to starting and torque losses due to stator winding current ripples, if two stator windings displaced by 90° are used. They may be connected either in parallel or in series, though the series connection is superior. The transistor commutator can also serve as a power amplifier. Speed of the motor can easily be controlled by modulation of the commutator input signals. This feature, combined with low power requirements on control signals, makes the motor a valuable tool in servomechanism design. Orig. art. has: 10 figures and 12 formulas.

ASSOCIATION: Institut elektromekhaniki AN SSSR (Electromechanics Institute AN SSSR)

SUBMITTED: 00

DATE ACQ: 20Dec63

ENCL: 01

SUB CODE: EE, IE

NO REF SOV: 005

OTHER: 001

Card 2/3

ACCESSION NR: AT4015859

ENCLOSURE: 01

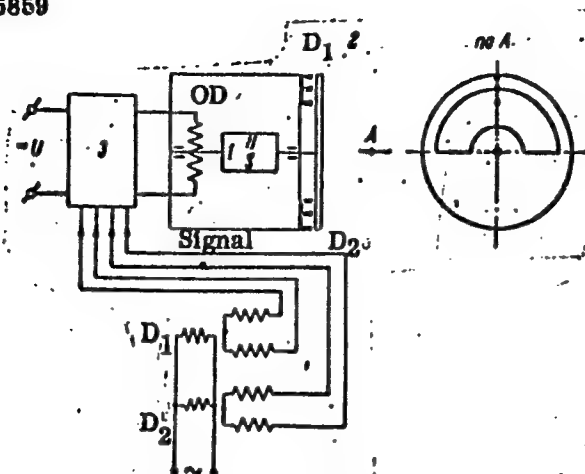


Fig. 1. Simplified version of D. C. motor

Card 3/3

LEBEDEV, N.I.

LEBEDEV, N.I.; LISUNOV, I.K.

[Cultivating corn in Moldavia] Agrotekhnika vozdeleyvaniia kukuruzy
v Moldavii. Kishinev, Gos. izd-vo Moldavii, 1951. 67 p.
(Moldavia--Corn (Maize)) (MIRA 11:3)

LEBEDEV, N. I.

6796. Lebedev, N. I. Agrotehnika yarovoy pshenitsy v usloviyakh Moldavii. Kishinev, Gosizdat Moldavii, 1955. 32 s. s. ill. 20 sm. (Glav. upr. s.-kh. propagandy i nauki M-va sel'skogo khozyaystva MSSR). 5.000 ekz. 40 k.- Na moldav. yaz.-- (55-2384) 633.11 (47.75)

SO: Knizhnaya Letopis' No. 6, 1955

LEBEDEV, N.I.

USSR/Cultivated Plants - Grains.

M-2

Abs Jour : Ref Zhur - Biol., No 20, 1958, 91609

Author : Lebedev, N.I., Kazanzhi, V.G.

Inst : Moldavian Scientific Research Institute for Agriculture.

Title : Test Results on the Effectiveness of Black and Occupied
Fallows for Winter Wheat Under the Conditions of Northern
Zone of Moldavia.

Orig Pub : Byul. nauchno-tekhn. inform. Mold. n.-i. in-ta s. kh.
Kishinev, 1957, 7-12.

Abstract : Tests were conducted in 1953-1956. The mixture used as
fallow-occupying crops were: vetch-oat, vetch-winter bar-
ley, vetch-rye, corn for green feed, corn for ensilage.
The best crops for preceding winter wheat on occupied fal-
lows turned out to be vetch-rye and vetch-winter barley
mixtures. The conditions for getting good yields of

Card 1/2

Country : USSR

J

Category: Soil Science. Tillage. Reclamation. Erosion.

Abs Jour: RZhBiol., No 16, 1958, No 82144

Author : Sidorov, M.; Lebedev, N.

Inst : -

Title : A System of Treatment of the Soil in Moldavia.

Orig Pub: Zemledeliye i zhivotnovodstvo Moldavia, 1957, No 2,
13-22

Abstract: Consideration is given to the effectiveness of the system of soil treatment applied at the present time in Moldavia under summer crops (barley, millet, corn), under winter (wheat, rye, winter barley) soil of corn, and pre-sowing treatment by fall plowing under summer cultures.

Card : 1/1

J-33

YAKUSHIN, M.V.; BRYUKHANOV, N.G.; KAZAKOV, V.N.; NIKITINA, L.I.;
KHVESYUK, F.I.; PECHENKIN, S.N.; ARTAMONOV, K.I.; LEBEDEV, N.I.;
MATVEYEV, A.T.; KOVALEV, S.I.

Converter treatment of complex metal mattes with an oxygen
enriched blow. TSvet.met. 34 no.10:34-39 0 '61. (MIRA 14:10)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tsvetnykh metallov
(for Yakushin, Bryukhanov, Kazakov, Nikitina, Khvesyuk, Pechenkin).
2. Irtyskiy polimetallicheskiy kombinat (for Artamonov, Lebedev,
Matveyev, Kovalev).

(Nonferrous metals--Metallurgy) (Converters)

DYUYSEKIN, Ye.K.; ABDEYEV, M.A.; KOVALEV, S.I.; LEBEDEV, N.I.

Effect of the addition of coke on the composition and yield of converter slags. Trudy Alt. GIMII AN Kazakh. SSR 14:104-109 '63.
(MIRA 16:9)

(Nonferrous metals—Metallurgy)
(Slag—Analysis)

L 20826-66 EWT(1) GS
ACCESSION NR: AT5013557

UR/0000/64/000/000/0096/0101

AUTHOR: Lebedev, N. I.; Oychinnikov, I. Ye.

TITLE: Electromagnetic torque of a two-winding contactless d-c motor 21, #4 6 BH

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatika, telemekhanika i priborostroyeniye (Automatic control, remote control, and instrument manufacture). Moscow, Izd-vo Nauka, 1964, 96-101

TOPIC TAGS: dc motor, contactless dc motor, micromotor

ABSTRACT: A new contactless d-c micromotor with two series-connected windings whose currents are switched by transistors (see Enclosure 1) are described. The motor is excited by a permanent-magnet-type armature. The transistors are controlled by four 3-core differential transformers whose magnetic circuits are switched by a rotating (on a motor-shaft extension) asymmetrical unwound armature. A formula (7) is developed for the torque of

Card 1/3

L 20826-66

ACCESSION NR: AT5013557

such a motor. Theoretical and experimental torque-speed characteristics of a 4-w 27-v motor, shown in the article, diverge in the near-starting region due to the armature reaction neglected in formula 7, and nearly coincide in the rated-operation region (8000-10000 rpm). Orig. art. has: 3 figures and 21 formulas.

ASSOCIATION: none

SUBMITTED: 24Oct64

ENCL: 01

SUB CODE: EE

NO REF SOV: 004

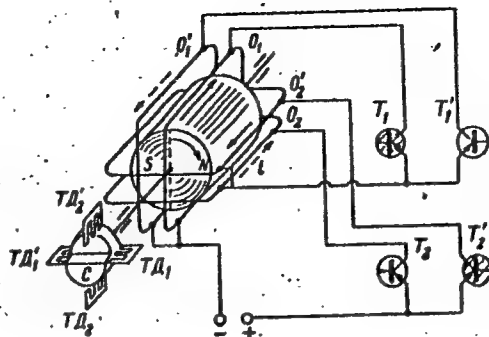
OTHER: 000

Card 2/3

L 20826-66

ACCESSION NR: AT5013557

ENCLOSURE: 1



A two-winding contactless d-c motor
with a differential-transformer-type
commutator

Card 3/3

L.60233-65 EWT(1)/EPA(s)-2
ACCESSION NR: AT5013558

UR/0000/64/000/000/0102/0108

8
B+

AUTHOR: Lebedev, N. I.

TITLE: Transistor commutator, stabilization, and speed control of a contactless d-c motor ↗

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatika, telemekhanika i priborostroyeniye (Automatic control, remote control, and instrument manufacture). Moscow, Izd-vo Nauka, 1964, 102-108

TOPIC TAGS: transistor commutation, dc motor, contactless dc motor, micromotor

ABSTRACT: A differential-transformer-type commutator of the 4-w micromotor described in Abstract AT5013557 is considered in some detail. Four 3-core transformers are located at 90° around a special unwound armature having a cut on one side; thus, the armature (carried by an extension of the motor shaft)

Card 1/2

L 60233-65

ACCESSION NR: AT5013558

performs an air-gap switching of the transformers. The overall power consumption (0.8 w) by the commutator is independent of the load on the motor shaft. Up to 1:15 rpm-control range can be achieved by pulse control of the commutator. Close speed regulation may be achieved by providing a speed-dependent feedback; in the simplest case, an additional winding for tachometer-generator purposes is provided in the motor. Such circuits ensure stabilized speed for widely changing torque, supply-voltage variations, and environmental influences. Orig. art. has: 7 figures.

ASSOCIATION: none

SUBMITTED: 24Oct64

ENCL: 00

SUB CODE: EE

NO REF SOV: 002

OTHER: 000

dm
Card 2/2

OVCHINNIKOV, I.Ye., kand. tekhn. nauk (Leningrad; LEBEDEV, N I., inzh.
(Leningrad)

Stabilization and speed control of a contactless d.c. motor.
Elektrichestvo no.2:46-48 F '65. (MIRA 18:3)

L 4255-66 EWT(1) GS
ACC NRI AT 5021833

UR/0000/65/000/000/0057/0063

56
B-1

AUTHOR: Lebedev, N.I.; Ovchinnikov, I. Ye.

TITLE: Reversible controllable contactless DC motor 29

SOURCE: AN SSSR. Institut elektromekhaniki. Avtomatizirovanny elektoprivod; sledyashchiye sistemy, upravleniye i preobrazovatel'nyye ustroystva (Automated electric drive; tracking systems, control and converter devices). Moscow, Izd-vo Nauka, 1965, 57-63

TOPIC TAGS: electric motor, automatic control system, automatic control equipment, transistorized generator

ABSTRACT: Conventional low-power electric DC motors used in automatic control devices have shortcomings due to the presence of brushes and collectors and to the absence of reliable control amplifiers. The newly developed contactless DC motors have characteristics close to those of conventional units, and they can be controlled by transistorized commutators. The present article describes the design and operation of contactless motors, the circuit and operation of the generator key, and the design and operation of a complete contactless 40 W experimental motor developed at the Institut elektromekhaniki (Institute of Electromechanics). A discussion is given of the most economical approach to the control of such motors. Orig. art. has: 2 figures.

Card 1/2

I 4255-66
ACC NR: AT 5021833

ASSOCIATION: None

SUBMITTED: 12Apr65

NO REF SOV: 002

ENCL: 00

OTHER: 000

SUB CODE: EE,

IE

Card ^{KC} 2/2

L 4254-66 EWT(1) GS
ACE NR: AT5021834

UR/0000/65/000/000/0064/0071

51
B+1

AUTHOR: Ovchinnikov, I. Ye.; Lebedev, N.I.

TITLE: Control and power characteristics of double-winding contactless DC motors 29

SOURCE: AN SSSR. Institut elektromekhanild. Avtomatizirovanny elektropriwod; sledya-shchiye sistemy, upravleniye i preobrazovatel'nyye ustroystva (Automated electric drive; tracking systems, control and converter devices). Moscow, Izd-vo Nauka, 1965, 64-71

TOPIC TAGS: electric motor, electric power source, electric equipment, speed regulator

ABSTRACT: The authors showed earlier that contactless DC motors have characteristics which are identical with those found in ordinary DC motors with independent excitation. In particular, contactless motors can be easily controlled by simple low-power devices. The present article discussed theoretically 1) the motor speed control by changing the winding power supply voltage; 2) the motor speed control by unipolar pulses; 3) control by pulses of differing polarity and 4) control by negative speed dependent feedback. All these approaches were tested experimentally. The article concludes with a discussion of power relationships during the use of the various methods of speed control. Orig. art. has: 42 formulas and 3 figures.

ASSOCIATION: None

SUBMITTED: 12Apr65

ENCL: 00

SUB CODE: EE, IE

NO REF SOV: 004

OTHER: 000

Card 1/1 *ka*

PIMENOV, Aleksandr Nikolayevich. Primal uchastiye UTKIN, N.A.,
dots.; GONIK, A.A., kand. tekhn. nauk, retsenzent;
FARBER, A.V., inzh., retsenzent; LEBEDEV, N.I., red.

[Machines and mechanisms for lumber floating] Mashiny i
mekhanizmy na lesosplave. Izd.2., ispr. i dop. Moskva,
Lesnaia promyshlennost', 1965. 388 p. (MIRA 19:1)

LEEDEV, Nikolay Nikolayevich; FRIDMAN, Abel' Mendelevich; ZHILOV,
I.I., red.; LIFEROVA, A.I., red. izd-va; KOZLENKOVA, Ye.I.,
tekh. red.

[Collection of problems on the economics and planning of the
Soviet cooperative trade] Zadachnik po ekonomike i planirovani-
iu sovetaskoi kooperativnoi trgovli. Moskva, Izd-vo Tsentro-
soiuza, 1962. 190 p. (MIRA 15:9)
(Retail trade)

LEBEDEV, Nikolay Nikolayevich; PIKOVSKIY, G.I., retsenzent; BEKETOVA, Ye.M.,
redaktor; NEKHASOVA, O.I., tekhnicheskii redaktor.

[Production of twisted goods; basic theories of twist] Krutil'nos
preizvodstvo; osnovy teorii svivki. Moskva, Gos.nauchno-tekhn.
izd-vo Ministerstva promyshlennykh tovarov shirokogo potrebleniia
SSSR, 1954. 94 p. (MIRA 8:5)
(Rope) (Spinning)

LEBEDEV, N.N., ZMIYEV, D.M.

Dividing devices used in thread grinding and relieving machines
having no differential attachments. Mashinostroitel' no.1:36-37
Ja '57. (MLRA 10:4)

1. Moskovskiy zavod "Stankokonstruktsiya".
(Screw-cutting machines--Attachments)

65

AUTHOR: Lebedev, N.N., and Zmiyev, D.M.

TITLE: A Dividing Attachment for Thread Grinding and Relieving
Machines (Delitel'noye prisposobleniye k rez'boshlifoval'-
nym i zatylovochnym stankam)

PERIODICAL: Stanki i Instrument, 1957, No.1, p.39. (U.S.S.R.).

ABSTRACT: A dividing head mounted on a work spindle is
illustrated and described. (1 diagram),

ASSOCIATION:

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress

NAYDYSH, A.M., prof.; BRATISHKO, A.S., inzh.; ZEMLYANSKIY, L.V., inzh.;
LEBEDEV, N.N., inzh.; CHUYKOV, G.L., inzh.

Determining the optimum load on a panel for mines with a
high methane liberation. Izv. vys.uchev.zav.:gor.zhur. 7
no. 4:26-32 '64. (MIRA 17:7)

1. Donetskij politekhnicheskij institut. Rekomendovana
kafedroy razrabotki mestorozhdeniy poleznykh iskopayemykh.

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VASIL'YEVA, V.I., red. izd-va; SUNGUROV, V.S., tekhn. red.

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4. Technology
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LEBEDEV N.N.

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LEBEDEV, N.N., inzhener, redaktor; VINOGRADOV, K.V., inzhener, redaktor;
LEVI, S.S. inzhener, redaktor; ROZANOV, M.S., inzhener, redaktor;
SIMAKOV, S.N., inzhener, redaktor; SOKOLOV, D.V., inzhener,
redaktor; NIKOLAYEV, L.A., redaktor; DAKHNOV, V.S., tekhnicheskii
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LEBEDEV, Nikolay Nikolayevich, inzhener; TYAPKIN, B.G., redaktor izdatel'stva; KENSON, M.N., tekhnicheskii redaktor.

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(MLRA 10:6)

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ekspluatatsionnik na stroitel'stve. Pod red. N.N.Lebedeva. Izd.4.,
dop. i perer. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i
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tekh.n.red.

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LEBEDEV, N.N., inzh., red.; PETROYA, V.V., red.izd-va; BOROVNEV, N.K.,
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LEBEDEV, N.N., inzh.; LEVI, S.S., kand.tekhn.nauk; ROZANOV, M.S.,
 inzh.; SIDOROV, V.H., inzh.; SOKOLOV, D.V., inzh.; SLONIM, N.M.,
 inzh., laureat Stalinskoy premii; EPSHTEYN, A.L., inzh.; ANTRUSHIN,
 B.D., inzh., nauchnyy red.; SIMAKOV, S.N., inzh., nauchnyy red.;
 TRUBIN, V.A., glavnny red.; SOSHIN, A.V., zam.glavnogo red.; GRINE-
 VICH, G.P., red.; YEPIFANOV, S.P., red.; ONUFRIYEV, I.A., red.;
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[Power engineering handbook for construction work] Spravochnik
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(Electric power distribution) (Electric wiring)
(Electric lines)

LEVI, S.S.; LEBEDEV, N.N., inzh., nauchnyy red.; SOKOL'SKIY, I.F., red.
izd-va; OSENKO, L.M., tekhn. red.

[Electric equipment of plants and storage areas of precast
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sbornykh zhelezobetonnykh izdelii. Moskva, Gos. izd-vo lit-
ry po stroit., arkhitekt. i stroit. materialam, 1961. 250 p.
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tekhn. red.

[Directives no.167-61 on the design of municipal electric power distribution networks; 1000 volt networks withing the blocks of cities and large settlements] Ukazaniia po proektirovaniu gorodskikh elektricheskikh setei; vnutrikvartal'nye elektricheskije seti napriazheniem do 1000 vol't v gorodakh i poselkakh gorodskogo tipa, SN 167-61. Uтверждены 25 мая 1961 г. Москва, Гос. изд-во лит-ры по строит., архит. и строит. материалам, 1961. 21 p.
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(Electric power distribution)

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avtom.proizv. 16 no.8:5-7 Ag '62. (MIRA 15:9)
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tekhn. red.

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MASANOV, Nikolay Fedorovich; LEBEDEV, N.N., red.; LARIONOV, G.Ye.,
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skva, Gosenergoizdat, 1963. 30 p. (Biblioteka elektro-
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power ratings up to 560 kv.-a] Montazh podstantsii 6-10 kv. s
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A.N., inzh., nauchn. red.

[Electrical equipment of industrial enterprises and systems
in three parts] Elektrooborudovanie promyshlennykh pred-
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<p>ASU-55A DETAILING LITERATURE CLASSIFICATION</p> <p>10000 01 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52</p>																																																			

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SO: Sum. No. 480, 9 May 55.

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Laboratoriya sravnitel'noy patologii Instituta obshchey i
eksperimental'noy patologii AMN SSSR.

(GASTRIC JUICE,
secretion, in simulated feeding in dogs)
(STOMACH, physiology,
motor funct. in simulated feeding in dogs)

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1. Iz laboratorii infektsionnoy patologii (zav. chlen-korrespondent AMN SSSR prof. A.Ya. Alymov) i laboratorii radiobiologii (zav. - kandidat meditsinskikh nauk N.N.Lebedev) otdela obshchey patologii (zav. akad. A.D.Speranskiy) Insituta normal'noy i patologicheskoy fiziologii AMN SSSR (dir. - deystvitel'nyy chlen AMN SSSR prof. V.N.Chernigovskiy)

(ROENTGEN RAYS, eff.

total body irradiation, on action of antitetanus serum in mice)

(TETANUS, immunol.

eff. of total body X-irradiation on action of antitetanus serum in mice)

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LEBEDEV, N. N.

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1. Otdel obshchey patologii Instituta normal'noy patologicheskoy fiziologii AMN SSSR, Moskva.
(VAGOTOMY, eff.

on stomach contractions (Rus))

(STOMACH, physiol.

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LEBEDEV, N.N.

Experimental data on the evacuatory function of periodical movements of the digestive tract. Fiziol.zhur. 45 no.12:1462-1471
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1. From the Laboratory of Experimental Pathology, Institute of Normal and Pathologic Physiology, Moscow.
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LEBEDEV, N.N. (Moskva)

Mechanisms of functional disorders of the stomach in acute experimental gastritis. Pat.fiziol.i eksp.terap. 5 no.1:56-61. Ja-z '61.
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Instituta normal'noy i patologicheskoy fiziologii AMN SSSR.
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BARANOV, A.N.; YEGUNOV, K.I.; ZEL'TSER, Ye.I.; LEBEDEV, N.N.; SLOBOD-
CHIKOV, D.A.; CHEREMISIN, M.S.; SHLENSKIY, I.A., tekhnicheskii
redaktor

[Geodesy in tunnelling] Geodeziia v tonnelestroen'ii. Moskva,
Izd-vo geodezicheskoi i kartograficheskoi lit-ry. Pt. 1 [Geo-
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(Geodesy) (Tunneling)

KUZIN, N.A.; LEBEDEV, N.M.; CHEBOTAREV, A.S., redaktor; INOZEMTSEVA, A.I.,
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surveying] Prakticheskoe rukovodstvo po gorodskoi i inzhenernoi
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Moskva, Izd-vo geodesicheskoi lit-ry, 1954. 478 p. (MIRA 8:2)
(Triangulation)

LEBEDEV, N.N.

On traversing network adjustments. Geod.i kart. no.8:21-22 Ag '57.
(MIRA 10:10)

(Traverses (Surveying))

LEBEDEV, Nikolay Nikitich; MATVEYEV, S.A., red.; VASIL'YEVA, V.I., red.
1zd-va; BOTVINKO, M.V., tekhn.red.

[Special characteristics of geodetic work in urban areas]
Osobennosti geodezicheskikh rabot na gorodskikh territoriakh.
Moskva, Izd.-v geodez. lit-ry, 1958. 237 p. (MIRA 12:2)
(Geodesy)

3(4)

AUTHOR: Lebedev, N. K., Docent

SOV/154-58-5-7/18

TITLE: Method of Indirect Angle Measurements in Traverse and Transit Work (Kosvennyy metod izmereniya uglov v poligonometricheskikh i teodolitnykh rabotakh)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"yemka, 1958, Nr 5, pp 67 - 73 (USSR)

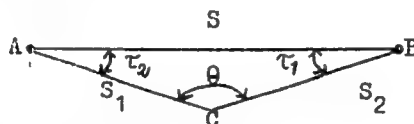
ABSTRACT: This method is based upon a property of an oblong triangle. If in a pronouncedly oblong triangle ABC the sides s , s_1 and the angle θ are measured, the errors of the calculated angles will be considerably less than the error of the angle τ_1 and τ_2 measured directly. It is shown that in case the acute angle of the oblong triangle is less than 3° the error of the calculated angle τ_1 will be less than the error of the angle measured directly in proportion to the excess of the side s over the side s_1 . It is demonstrated that instead of s also s_2 can be measured. The efficacy of the method is not² impaired if

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Method of Indirect Angle Measurements in Traverse and
Transit Work

SOV/154-58-5-7/18

s_1 and s_2 are measured. The influence of the errors of the angles τ_1 and τ_2 upon the accuracy of the calculation of s is insignificant. The relative error of the calculated side s will be less than the relative error in the calculation of the sides s_1 and s_2 . Sample problems are presented elucidating possibilities of applying the method of indirect angle measurement in traverse and transit work.



There are 8 figures.

ASSOCIATION: Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i kartografii (Moscow Institute of Geodesy, Aerial Surveying, and Cartography Engineers)

SUBMITTED: March 25, 1958
Card 2/2

3(4)
AUTHOR:

Lebedev, N. N.

SOV/6-58-10-3/17

TITLE:

Control
Calculation of the Accuracy Required in the Geodetic Points
for Surveys of Town and Industrial Areas on a Large
Scale (Raschet neobkhodimoy tochnosti geodezicheskogo
obosnovaniya dlya krupnomasshtabnykh s"yemok gorodskikh i
promyshlennykh territoriy)

PERIODICAL:

Geodeziya i kartografiya, 1958, Nr 10, pp 15-23 (USSR)

ABSTRACT:

In this paper, the scheme for the development of surveying data in town areas of first category is first of all exposed: Base net, triangulation of first and second grade, traversing of first and second grade, transit traverse of first and second order. As a basis of the calculation with the desired accuracy in the determination of the location of points of the geodetic elements of built-up town areas the following rules are established: 1) The mean square deviation of the determination of the point location in surveying elements should not exceed 0,2 mm on the topographic map with respect to any point not farther removed than 1 km. 2) The accuracy of the determination of points of geodetic control points should comply with the requirements placed upon surveys at a scale of

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Calculation of the Accuracy Required in the Geodetic SOV/6-58-10-3/17
Elements for Surveys of Town and Industrial Areas on a Large

1 : 500. This is the largest scale ever adopted Scale
in planning and constructing in large towns. 3) The errors of the
initial elements must be smaller by a factor of $\sqrt{2}$ than the
surveying errors in the respective stage of development of the
geodetic points in order to prevent the errors of the initial
data not leading to a too great distortion of the results of
the measurements to be carried out. 4) The influence of the
errors of the initial data upon the accuracy of the coordinates
of points to be determined varies as the distance of such
points to the initial point. Taking these rules as a foundation
of further considerations the required accuracy of the
determination of point coordinates is computed. Firstly such
computations are applied to a free net of a town triangulation.
The case is considered next, where points of the state
triangulation net of third grade are available on the town
area with a side length of the triangles of 4 km. Summary:
1) In town triangulation the tolerances for errors in the
mutual location of adjacent points must be determined and not
the tolerance for errors in the determination of the
coordinates of points with respect to any random point in the

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Calculation of the Accuracy Required in the Geodetic SOV/6-58-10-3/17
Elements for Surveys of Town and Industrial Areas on a Large Scale

town area. The magnitude of this tolerance must be computed in dependence upon the side length of triangulation triangles or per unit length, as, for example, per km. 2) There is no necessity to employ always in all cases the same standard scheme for the development of geodetic ^{control} points. This scheme should be adapted in each individual case to the nature of the terrain and to the conditions in the performance of surveying field work. There are 1 figure and 3 references, which are Soviet.

Card 3/3

LEBEDEV, Nikolay Nikitich, dotsent; BARANOV, A.N., red.; VASIL'YEVA, V.I.,
red.izd-va; ROMANOVA, V.V., tekhn.red.

[Engineering surveys; surveying operations in tunnel construction]
Inzhenernaia geodeziia; geodezicheskie raboty pri stroitel'stve
tonnelei. Moskva, Izd-vo geodez.lit-ry. Pt.6. 1959. 234 p.
(MIRA 12:8)

1. Nachal'nik Glavnogo upravleniya geodezii i kartografii (for
Baranov).

(Tunnels--Surveying)

KUZNETSOV, Sergey Mikhaylovich; CHASTUKHIN, S.A., inzh.-geodezist, retsen-
zent; KLIMOV, O.D., kand.tekhn.nauk, retsenzent; MURAV'YEV, M.S.,
dotsent, retsenzent; LEVCHUK, G.P., dotsent, kand.tekhn.nauk,
retsenzent; LEBEDEV, N.N., dotsent, retsenzent; GLOTOV, G.F., dotsent,
retsenzent; GRIGOR'YEV, V.M., inzh.-geodezist, retsenzent; PIMENOV,
A.F., inzh.-geodezist, retsenzent; BELIKOV, Ye.F., dotsent, red.;
KHROMCHENKO, F.I., red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodetic operations in the design and construction of hydraulic
structures] Geodezicheskie raboty pri proektirovanii i stroitel'stve
gidrotekhnicheskikh sooruzhenii. Moskva, Izd-vo geod.lit-ry, 1960.
173 p. (MIRA 13:9)

(Hydraulic engineering)

(Surveying)

LEBEDEV, Nikolay Nikitich. Prinimal uchastiye KONONOV, G.M., inzh.
BARANOV, A.N., red.; SHURYGINA, A.I., red.izd-va; BOTVINKO, M.B.,
tekhn.red.

[Engineering geodesy; geodetic operations in city planning and
construction] Inzhenernaya geodeziya; geodezicheskie raboty pri
planirovke i stroitel'stve gorodov. Moskva, Izd-vo geodez.lit-ry.
Pt.5. 1960. 181 p. (MIRA 14:3)
(Surveying)

LEBEDEV, N.N., kand.tekhn.nauk

Concerning K.S. Briakov's article. Geod. i kart. no. 10:60-62
0 '60. (MIRA 13:12)
(Surveying)

LEBEDEV, N.N.

Adjustment in traversing with equality of the secondary corrections in the angles. Geod.i kart. no.4:19-26 Ap '62.

(MIRA 15:12)

(Traverses (Surveying))

CSEBOTAREV, A.Sz.[Chabotarev, A.S.] prof. (USSR); LEBEDEV, N.N., a muszaki
tudományok kandidátusa, docens (USSR); ZELCSENYI, Geza (Hungary)

Soviet remarks about our 1st special issue. Geod kart 14
no.3:199-200 '62.

LEBEDEV, N.N.; MIKHELEV, D.Sh.

Angle measurements in the plotting of a geodetic net for a special
purpose. Geod. i Kart. no.6:27-32 Is '64. (MIRA 17:9)

10

MECHANISM OF THE FRIEDEL-CRAFTS REACTION. V. COM-
 PLEX COMPOUNDS OF BENZENE AND TOLUENE WITH ALUMINUM
 BROMIDE. V. V. KORSHAK, N. N. LEBEDEV, and S. D.
 FEDOSEEV (Mendeleev Chem. Tech. Inst., Moscow).
 J. Gen. Chem. (U.S.S.R.) 17, 575-83 (1947) (in Russian);
 J. C. A. 41, 271c. Judging by the strict additivity of
 the mol. refractions, solns. of $AlBr_3$ in benzene or PhMe
 do not contain truly definite complex but represent an
 equil. of the type $AlBr_3 + nC_6H_6 \rightleftharpoons Al_2Br_6(C_6H_6)_n$,
 shifted substantially to the left-hand side. When such
 a soln. is treated with HBr , however, profound changes
 occur, leading to a complex which seps. as an oil, charac-
 terized by electrocond. and having the compn. Al_2Br_6 -
 $2HBr$; the over-all system is best considered an equil.
 similar to that given above. $AlBr_3$ was prepd. by the
 action of Br on Al shavings, with Br being added to a layer
 of glass wool underlying a thick mass of Al shavings con-
 tained in a flask fitted with a sublimation tube and re-
 ceiver; the flask is heated concurrently with the Br addn.;
 the product is distd. as needed from the receiver. $AlCl_3$
 was made similarly, using Cl and Al ; the distn. neck was
 provided with a sleeve-sealed rod for clearing the sublim-
 ate from the distn. tube. Both halides were obtained in
 better than 90% purity. Solns. of $AlBr_3$ in benzene are
 high as 40% in concn. are readily made and, after removal
 of a small amt. of the oily complex, can be stored inden-
 nitely. The following counts, were detd. for such solns.:
 6.2% $AlBr_3$, d₄ 1.023, n_D 1.5041; 0.05% $AlBr_3$, d₄ 1.0052;
 13.77% $AlBr_3$, d₄ 1.0098; 17.10% $AlBr_3$, d₄ 1.0001; 19.05%
 1.023, 1.0001; 26.88% $AlBr_3$, d₄ 1.005, 1.5101. The mol. refra-
 ction for all solns. was 32.4. The mol. wt. of $AlBr_3$ in
 this soln. (l.p. method) found were 491 and 491.5 (theo-
 retical, 633.6), indicating only a small degree of dissoci-
 ation. Solns. in PhMe are similar. When dry HBr is passed into a
 soln. of $AlBr_3$ in PhMe, the complex seps. as a yellow-red oil
 which has 3.14-3.38 atoms of Br to 1 Al ; if, however, the
 oily complex is obtained without the use of added HBr but
 at the expense of moisture present in PhMe, the compn.
 is somewhat different: 2.93-2.97 atoms Br to 1 Al . The
 individual variations were considerable and are accounted
 for by partial hydrolysis of $AlBr_3$. If the HBr -originated
 complex is washed with dry PhMe, its Br/Al ratio ap-
 proaches 3.5:1. The similar complex obtained by treat-
 ment of $AlBr_3$ in benzene with HBr was somewhat less
 stable and did not withstand washing without some loss
 of Br ; the complex has n_D 1.5025-1.5130 and with water
 gives benzene and fatty by-products. Complexes prepd.
 in moist benzene have the compn. $Al_2Br_6 \cdot 6C_6H_6 \cdot 12H_2O$.
 Those made with dry HBr are $Al_2Br_6 \cdot 6C_6H_6 \cdot 12H_2O$.
 of the mol. wt. cryoscopically in benzene gave 141-144
 for the toluene complex and 600-617 for the benzene com-
 plex, thus showing considerable dissociation in soln. Reaction
 of the complexes with $AcCl$ gave the following compn.
 of the HX evolved: benzene complex, 81.18 mol. % HBr
 and 18.82 mol. % HCl ; toluene complex, 81.07 mol. %
 and 18.93 mol. % HCl ; 15.03-18.81 mol. % HCl , which sup-
 ports the formulation: $2(Al_2Br_6 \cdot 6C_6H_6 \cdot 12H_2O) + 12AcCl \rightarrow$
 $4AlBr_3 + 4PhAc + 4H(AHBr_2Cl) + 9HBr + 4H(AI-$
 $Br_2Cl) + 2HBr \rightarrow 5HBr + HCl + 3AHBr_2Cl + AHBr_2$
 G. M. Kosolapoff

ASB-LLA METALLURGICAL LITERATURE CLASSIFICATION

LEBEDEV, N. N.; KORSHAK, V. V.

"Complex Compounds of Alkyl Halide and Aluminum Halide," Dok. AN, 57, No. 3,
1947

LEBEDEV, N. N.

Apr 48

USSR/Chemistry - Sulfamic Acid
Chemistry - Chlorination

"Chlorination of Sulfamic Acid," V. V. Korshak, N. N. Lebedev, K. V. Borisova,
Moscow Order of Lenin Chemicotech Inst imeni D. I. Mendeleev, 3¹/₂ pp

"Zhur Obshch Khim" Vol XVIII (LXXX), No 4 - p.753

Investigates chlorination of sulfamic acid under various conditions. It is decomposed
by sodium hypochlorite or chlorine in an alkali medium, with the evolution of elementary
nitrogen. Intermediate products are mono- and di-chlorsulfamic acids. Submitted
24 Feb 1947.

PA 8/49450

LEBEDEV, N. N.

RJ-161 [The mechanism of the Friedel-Crafts reaction. Part 3. The structure of the complex compounds of aluminum halides with alkyl halides] O mekhanizme reaktsii fridelia-kraftsa VIII. O stroenii kompleksnykh soedinenii halogenidov aluminia s galoidnymi alkilami.
Zhurnal Obshchei Khimii, 18(10): 1766-1774, 1948

LEBEDEV, N. N.

The mechanism of the catalytic action of aluminum chloride (the Friedel-Crafts reaction).
I. P. 1 61-10.

The heats of reaction of aluminum bromide with 1,2-dichloroethane and chloroform were measured. The connection between the heat of solution of aluminum bromide and the electrical conductivity of the solutions was established. It is shown that the complexes of aluminum halides with alkyl halides are compounds of the solvate type. A new formula is proposed for them.

The Mendeleev Chemical-Technological Inst. Moscow
February 20, 1947

SO: Journal of Physical Chemistry (USSR) 22, No. 1 (1948)

LEBEDEV, N. N.

V. V. Korshak and N. N. Lebedev, On the mechanism of the Friedel-Crafts reaction.
VIII. On the structure of complex compounds of aluminum halides with alkyl halides.
p. 1766

The absorption of ultra-violet rays by solutions of aluminum bromide in ethyl bromide was investigated and it was found that this solution absorbs better than the pure solvent. The content of various hydrogen halides in gases evolved during the Friedel-Crafts reaction were also investigated. (This article has a bibliography of 43 entries.)

The Mendeleev Moscow Chemical Technological Inst., Holder of the Lenin Order
October 15, 1947

SO: Journal of General Chemistry (USSR) 28, (80) No. 10 (1948):

1. ФЕДЕВ, Н.Н.

High-molecular wt. compounds. XX. The influence of the number and of the nature of substituents on polycondensability of substituted ethylenes. V. V. Korshak (Lening. State U.S.S.R.). *Invent. Akad. Nauk S.S.S.R., Otdel Khim. Nauk* 1949, 269-73; cf. C.A. 44, 406c. Generally, $RCH:CH_2$ polymerize more readily than C_6H_5 , and $R_2C:CH_2$ also polymerize easily, although some exceptions occur. $R_2C:CHR$ usually form only dimers, while $R_2C:CR_2$ as a rule do not polymerize. The observations reported in the literature are reviewed and summarized as being the result of a screening effect by the R groups, this being det'd both by the no. and the dimensions of the substituents. The formation of dimers and trimers is explainable by rupture of a polymer chain caused by internal strains from mutual repulsion of large-size substituents. Thus $Ph_2C:CH_2$ is believed to form a polymer of linear type which breaks down to a mixt. of $Ph_2C(CH_2)_3CPh_2$ and $Ph_2C:CHCMePh_2$, with the latter being transformed into the former by intermediate formation of an indene-type structure (1,1,3-triphenyl-3-methylhydri-dene). XXI. Polycondensation of glycol with adipic acid. V. V. Korshak and V. V. Golubev. *Ibid.* 379-85.

—Condensation of glycol with adipic acid yields polymers the mol. wt. of which decreases with increased proportion of adipic acid in the reaction mixt. The polyesters heated with either the acid or the glycol suffer cleavage, forming low-mol. products, proportionally to the amts. of reagents used. The condensations were run a total of 6 hrs. (2 hrs. at 160° and 4 hrs. at 200°) in a N atm. (used to carry off the H_2O). The adipic acid proportion was varied from 0 to 100% excess over equimol.; the products after pptn. by ligroin from C_6H_6 (80-90% yields) formed waxy

solids, with increased hardness in higher-mol. products. The η_{inh} and η_{sp}/c of the animal esters were 3.40, with a rapid decrease to zero at 100°C. and below 70°C. with SOCl_2 esters, and the only in hydrocarbons decrease, in compounds with a preponderance of HO terminal groups. The acidolysis of the esters was performed under identical conditions by heating with adipic acid a polyester of mol. wt. 2300 (by viscosity), in 50-1°C.; the results (graphically given) are very similar to those of polycondensation as an increase of the acid proportion rapidly drops the η_{inh} mol. wt. of the ester to 1500-1800 with 20% acid added and below 500 with 60-100% acid added. The mol. wt. calculated from theoretical considerations of ester cleavage did not differ with that observed in all stages (50-300% lower). Similar heating of the polyester with glycol gave analogous results. A scheme of the possible simultaneous reactions, involving esterification and ester cleavage in heated mixts. of adipic acid and glycol, is presented in the form of equations XXII. Polycondensation of benzyl chloride. V. V. Korshak, N. N. Lebedev, and M. A. Tsipserstein. *Zhur. Obshch. Khim.* (U.S.S.R. Chem.), 19, 633-9; *J. Gen. Chem. U.S.S.R.* (in Engl. translation, by Consultants Bur., N.Y.) 19, 1047-54 (1949). Polycondensation of PhCH_2Cl yields a macromol., the terminal link of which is a dihydroanthracene ring. The condensation in the presence of CaH_2 gives progressively lower mol. wts. with increased proportion of CaH_2 , especially in the region of low concns. of the latter. PhCH_2Cl with 0.02 part AlCl_3 yields, after a reaction at room temp. completed on the water bath, gives 88.5% polymer, mol. wt. 2010, softens 220°, does not melt;

1.1
6

0.1 part AlCl_3 gives 90% polymer, mol. wt. 1945, softens, 230°, does not melt; similarly, 0.0025 part FeCl_3 gives 93.3% polymer, mol. wt. 2000, softens 72°, m. 108°, while 0.1 part gives 92.8% yield, mol. wt. 2500, softens 71°, m. 105°; 0.01 part ZnCl_2 (preliminary warming to 80-90° needed to start the reaction) gives an 89.5% yield, mol. wt. 2100, softens 65°, m. 95°, and 0.02 part catalyst gives an 87.5% yield, mol. wt. 2100, softens 63°, m. 92°. AlCl_3 gives an orange, ZnCl_2 a light yellow, and FeCl_3 a greenish yellow powder; the 2 latter products are sol. in C_6H_6 . Dry distn. of 30 g. FeCl_3 polymer gave 20 g. carbonized residue and 8 g. distillate, contg. 4.1 g. PhMe and 1.8 g. crude (0.5 g. pure) anthracene, as well as 2 g. reddish resin which had a mol. wt. of 329. The anthracene residue is believed to arise during chain growth is formed by ring closure in the ortho position by the terminal CH_2Cl in respect to the penultimate benzene ring, yielding dihydroanthracene, and during the dry distn. the macromol. breaks, yielding PhMe and anthracene by dehydrogenation of the dihydro deriv. The yields suggest that only a part of the chain terminations are of this type, the others being $p\text{-CH}_2\text{Cl}$ groups. Heating 9 g. polymer with 10 parts C_6H_6 and AlCl_3 gave 3.5 g. Ph_2CH_2 and 4.5 g. product, mol. wt. 1330, indicating much cleavage during the heating. Heating with FeCl_3 gave no low-mol. products and merely lowered the mol. wt. to 2000-2200; it is believed that AlCl_3 catalysis yields some CH_2Cl which cross-links the polymer and causes insoly. and high m.p. Addn. of 2 to 1000 mol.-% C_6H_6 to 1:100 mixts. of $\text{Ph-CH}_2\text{Cl}$ and FeCl_3 gave 94-99% yields of polymers, ranging from m. 90° to liquids, with mol. wts. from 2000 to 420; the liquid products form at 50 mol.-% C_6H_6 or higher and are accompanied by 12.5-42.0% Ph_2CH_2 , 25.0-11.3% mixed *o*- and *p*-dibenzylbenzenes, m. 79-81°, as well as small mts. of higher products. G. M. K.

LEBEDEV, N. N.

PA 65/49T23

USSR/Chemistry - Benzyl Chloride Apr 49
High-Molecular Compounds

"The Field of High-Molecular Compounds: XIII,
Polycondensation of Benzyl Chloride," V. V. Korshak,
N. N. Lebedev, M. A. Tsipershteyn, Moscow Chemico-
technol Inst imeni D. I. Mendeleev, 6 $\frac{1}{2}$ pp

"Zhur Obshch Khim" Vol XIX, No 4 7pp-647-54

Studied this reaction in the presence and in the
absence of benzene, the molecular weight of the
product formed being decreased as the amount of
benzene is first introduced. Shows that the clos-
ing link in the chain of the macromolecule is the
dihydroanthracene ring. Submitted 4 Dec 47.

65/49T23

27 10

Mechanism of the Friedel-Crafts reaction. X. Mechanism of the catalytic action of aluminum chloride. V. V. Korshak and N. N. Lebedev (Mendeleev Chem. Technol. Inst., Moscow). *Zhur. Obshchei Khim.* (J. Gen. Chem.) 20, 266-70 (1950); cf. *C.A.* 44, 3470b. -The catalytic action of $AlCl_3$ and related Friedel-Crafts reaction catalysts is explained by the presence of a powerful dipole in the catalyst, especially when the twinned mol. Al_2Cl_6 is considered, which is given the highly dipolar $\overset{+}{Al}Cl_2\overset{-}{Al}Cl_2$ structure, and induces strong polarization in the reactant mols. This is believed to be the important

step in the usual aromatic reactions catalyzed by the metal halides of this type. The action of $BF_3 \cdot Et_2O$ is similar, being due to dipole formation between pos. O and neg. B atoms. G. M. Kosolapoff

CA

Mechanism of the Friedel-Crafts reaction. X. Mechanism of the catalytic action of aluminum chloride. V. V. Korshak and N. N. Lebedev (D. I. Mendeleev Inst. Chem. Technol., Moscow). *J. Gen. Chem. U.S.S.R.* 20, 283-7 (1959) (Engl. translation).—See *C.A.B.* 44, 6865h. R. M. S.

LEBEDEV, N. N.

PA 194T24

USSR/Chemistry - Aluminum Chloride and
Bromide Complexes Oct 51

"Mechanism of the Catalytic Action of Aluminum Chloride. II. Structure of Complexes With Acid Halides, Ketones, and Other Oxygen Compounds," N. N. Lebedev, Moscow Order of Lenin Chemicotech Inst imeni D. I. Mendeleev

"Zhur Obshch Khim" Vol XXI, No 10, pp 1788-1794

Studied complex compds of $AlBr_3$ with n-butylbromide, acetophenone, benzophenone. Ultraviolet absorption spectra showed absorption region displaced toward longer wave lengths in the case of

194T24

USSR/Chemistry - Aluminum Chloride and
Bromide Complexes (Contd) Oct 51

formation of complexes. Measured heat of formation of above complex compds and complex of $AlBr_3$ with benzoylbromide. Showed that in complex compds with acid chlorides $AlCl_3$ becomes attached to O atom. Thus Meerwein's formula is incorrect. Proposes new formulas for complex compds of $AlCl_3$ with acid halides, ketones, and other org substances, taking into account their ionic character, elec cond, and dimeric character.

194T24